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Figure 5

Figure 2A
Figure 2B
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Figure 2

Figure 4A
Figure 4B
Figure 4C

Figure 4

```
              1                                                  50
OsEPSPS_Nat   ATGGGGGCGA CCATGGCGTC CAACGCCGCG GCTGCGGGCGG CGGTGTCCCT
OsEPSPS_AT    ......T.A. T.....TAG  T.....A... ....C.T... ..C.T....T.
OsEPSPS_ZM    .....C.T.  .G.....TAG T.....G..A ..C..T.... ..T..T.G..

              51                                                 100
OsEPSPS_Nat   GGACCAGGCC GTGGCGGGCGT CGGCGGGCGTT CTCGTCGCGG AAGCAGCTGC
OsEPSPS_AT    A.....A..A ..A....A.A GC..T..A.. ...A.A.T  ....A...A.A.
OsEPSPS_ZM    A...T.....G ..T...CA GC..T..C.. ...CAGTA.. ..A...T.A.

              101                                                150
OsEPSPS_Nat   GGCTGCCCGC CGCGGGGCGC GGGGGGATGC GGGTGCGGGT GCGGGGCGCGG
OsEPSPS_AT    ...A.A..  A.C..TA.A  ..C....A   .C...A..   .A....TA.A
OsEPSPS_ZM    .T.C...G.. G..T...A  ..T..A...A .A....C..  T.A..CA.A

              151                                                200
OsEPSPS_Nat   GGGCGGGCGGG AGGCGGTGGT GGTGGGCGTCC GCGTCGTCGT CGTCGGGTGGC
OsEPSPS_AT    ..TA.....  ...T.A..   C.A.C....  ..T.TAGCA  GT........
OsEPSPS_ZM    ..CA.A..T  .....C....  A.C..C..G  ..CAGC.... .CAGT..T..
```

Figure 1A

```
                      201                                                      250
OsEPSPS_Nat  AGCGGCGGGCG  GCGAAGGCGG  AGGAGATCGT  GCTCCAGCCC  ATCAGGGAGA
OsEPSPS_AT   T.........T  .........A  .........T..  TT.A..A..T  ..T.....A.
OsEPSPS_ZM   T.........A  .........C  .A..A.T..  T..G..A..G  ..AC.....A.

                      251                                                      300
OsEPSPS_Nat  TCTCCGGGGC  GGTTCAGCTG  CCAGGGTCCA  AGTCGCTCTC  CAACAGGATC
OsEPSPS_AT   .A..G.....  C..A..AT.A  ..T..AAG..  ..AGC..T..  .........T
OsEPSPS_ZM   .T..G..C..  .....G....  ..T..C..G.  .....C..G..  G..TC.T...

                      301                                                      350
OsEPSPS_Nat  CTCCTCCTCT  CCGCCCTCTC  CGAGGGCACA  ACAGTGGTGG  ACAACTTGCT
OsEPSPS_AT   ..GT.G..T.  ..A..T....  G.....A...  ........T..  .T..TC..T.
OsEPSPS_ZM   ..T..G..A.  .:G..G..G..  ...A.G..C  ..G..T..A.  .T..TC..T.

                      351                                                      400
OsEPSPS_Nat  GAACAGTGAG  GATGTTCACT  ACATGCTTGA  GGCCCTGAAA  GCCCTCGGGC
OsEPSPS_AT   ...T......  ......G....  ...T..A...  .....C.G  ..T.A....
OsEPSPS_ZM   ....TCC..A  ...C..G....  ........C.  ..A.G.A...  ..GT.G..CT
```

Figure 1B

```
                    401                              450
OsEPSPS_Nat  TCTCTGTGGA AGCAGATAAA GTTGCAAAAA GAGCTGTAGT CGTTGGCTGT
OsEPSPS_AT   .T...A...  ...G......  .A......C  .C.A..G..  T..A..T...
OsEPSPS_ZM   .GAGC..T..  G..T..C...  ..G..C..GC  ...A..C..  A..G..A..C

                    451                              500
OsEPSPS_Nat  GGTGGGCAAGT TTCCTGTTGA GAAGGATGCG AAAGAGGAAG TGCAACTCTT
OsEPSPS_AT   ...G.....  .C..A....  A.......T  ..G..A...  .A..G.....
OsEPSPS_ZM   ..C..T....  .C..A..G..  ...A..C..C  ....A..G.  .T....T.G..

                    501                              550
OsEPSPS_Nat  CTTGGGGAAC GCTGGAATCG CAATGCGATC CTTGACAGCA GCCGTGACTG
OsEPSPS_AT   TC.C....T  ..C.G....  .C......  C.....GAG  T....T..T  .G..C..A.
OsEPSPS_ZM   .......A..  .......C..  .......  ...A..AG  .C...T.C  .G..C.....

                    551                              600
OsEPSPS_Nat  CTGCTGGTGG AAATGCAACT TATGTGCTTG ATGGAGTGCC ACGAATGAGG
OsEPSPS_AT   .C.....A..  .C.C.....A  ..C.C..C.A  .....G....  GA......C.T
OsEPSPS_ZM   .C..A..G..  T.C......  ..C.C..G.  .C.T.T..  ...G...C.C
```

Figure 1C

```
                              601                                    650
OsEPSPS_Nat  GAGAGACCGA  TTGGTGACTT  GGTTGTCGGG  TTGAAACAAC  TTGGTGCGGA
OsEPSPS_AT   ...C.T..T.  .......TC.  T.C..A..T   C.C..G....  .C..C...T..
OsEPSPS_ZM   ..AC.....C.  .C.....TC.  C..G..A..A  C.T......T  .G...A...C..

                              651                                    700
OsEPSPS_Nat  TGTCGACTGT  TTCCTTGGCA  CTGAATGCCC  ACCTGTTCGT  GTCAAGGGAA
OsEPSPS_AT   C.A..T....  .....G..T.  ....G.T..  G..A..CA.A  ..T.A.....
OsEPSPS_ZM   ...A..T...  ...T.G..G.  .A.G......  T.A..G..G  .A......C.

                              701                                    750
OsEPSPS_Nat  TTGGAGGACT  TCCTGGTGGC  AAGGTTAAGC  TCTCTGGTTC  CATCAGCAGT
OsEPSPS_AT   .C..T..G..  G.G..C..A  ......C...  .G..G...CAG  T..TTCG....
OsEPSPS_ZM   .C..G..T..  C.A..C..A  .....G...T  .A..A..GAG  T...TC.TCG

                              751                                    800
OsEPSPS_Nat  CAGTACTTGA  GTGCCTTGCT  GATGGCTGCT  CCTTTGGGCCC  TTGGGGATGT
OsEPSPS_AT   .....TC.TT  C.C..TC.C..  ...........G  ..A.A..TT  .G..A......
OsEPSPS_ZM   .....C.CT  CC..GC...T  .........  ..A.A  ..AC....GT  .G...C...C..
```

Figure 1D

```
          801
OsEPSPS_Nat GGAGATCGAA ATCATTGACA AACTAATCTC CATTCCTTAC GTTGAAATGA
OsEPSPS_AT  T.......G  ......T..  ...T..A..  T..C..G..T ..C...G...
OsEPSPS_ZM  T..A..T... ...T..C... .G..C..A.. ...C..G..T ..G..G....

          851
OsEPSPS_Nat CATTGAGATT GATGGAGCGT TTTGGGTGTGA AGGCAGAGCA TTCTGATAGT
OsEPSPS_AT  .T..A..C. T......A.G ......G.T. ......C... .AGC...C...
OsEPSPS_ZM  ..C...C.GC. .......... ....AA.A .A.T..A.. .AG...CTC.

          901
OsEPSPS_Nat TGGGACAGAT TCTATATTAA GGGAGGGCAG AAGTACAAAT CTCCTGGAAA
OsEPSPS_AT  ....TC.T. ......C.A. ......C... .......T.G. ......G...
OsEPSPS_ZM  ....TC.G. ......C.C. ......A... ..A.T..GA G...A..C..

          951
OsEPSPS_Nat TGCCTATGTT GAAGGTGATG CCTCAAGCGC GAGCTATTTC TTGGCTGGTG
OsEPSPS_AT  ..T......A ......G.... T...TCT .TCT..C... C.T..G..A.
OsEPSPS_ZM  ..G..C..G  .G..C..C. ....TTC... C......... ....A..C..
```

Figure 1E

```
            1001                                                      1050
OsEPSPS_Nat CTGCAATCAC TGGAGGCACT GTGACAGTTC AAGGTTGTGG TACGACCAGT
OsEPSPS_AT  .G..T..A.. ......A..A ..C...... .G.C.C... ...A..A...
OsEPSPS_ZM  .A..T..T.. C....T... ...T...C .......G. A..A..G..C

            1051                                                      1100
OsEPSPS_Nat TTGCAGGGTG ATGTCAAATT TGCTGAGGTA CTTGAGATGA TGGGAGCAAA
OsEPSPS_AT  ......A... .C.G..G.. ...C..... ....A.... ...T.C...
OsEPSPS_ZM  C.....A.C. C.A..G.. C.A..A..C ...A..... ...C..T..

            1101                                                      1150
OsEPSPS_Nat GGTTACATGG ACTGACACCA GTGTAACCGT AACTGGTCCA CCACGTGAGC
OsEPSPS_AT  A.A..G.. .A....AT CG..G.A.. T......T ....A..A.
OsEPSPS_ZM  ..G..T.. ..A..T.GT CA..C.... C.....G..T ..T..G..A.

            1151                                                      1200
OsEPSPS_Nat CTTATGGGAA GAAACACCTG AAAGCTGTTG ATGTCAACAT GAACAAAATG
OsEPSPS_AT  ...C..C.. A.G..T..T ..G..C..G. ...T..... ...T..G...
OsEPSPS_ZM  .C..C..T.. ......... ..G..A..G. .C..G..... ...T..G...
```

Figure 1F

```
                                                              1250
OsEPSPS_Nat CCTGATGTTG CCATGACCCT TGCCGTTGTT GCACTCTTCG CTGATGGTCC
OsEPSPS_AT  ....C..... .T.....A.. .......... ..C...T.T. .A..C...C..
OsEPSPS_ZM  ..A.C..... ..G....... C..A...A.C ..T...G.... .A..C...A..

                                                              1300
OsEPSPS_Nat AACTGCTATC AGAGATGTGG CTTCCTGGAG AGTAAAGGAA ACCGAAAGGA
OsEPSPS_AT  ..G..G...A C.C.....T. .A..A...C. C..C...... ..G..G....
OsEPSPS_ZM  T.C......T ..G...C.T. ...AGT..... G.C......G ..T...G...A

                                                              1350
OsEPSPS_Nat TGGTTGCAAT TCGGACCGAG CTAACAAAGC TGGGAGCATC GGTTGAAGAA
OsEPSPS_AT  ...G..T.. ...A.T...A ..C..C.A. .T..T..C. T..A..G...G
OsEPSPS_ZM  ...C..T. C..C.....A ..T..G..A. .C..T...AG C..G...G....

                                                              1400
OsEPSPS_Nat GGTCCTGACT ACTGCATCAT CACCCCACCG GAGAAGCTGA ACATCACGGC
OsEPSPS_AT  ..C.....T. ......... T..A..C..T .....A..T. .....T..
OsEPSPS_ZM  ......A.... .......... A..G..T..C ..A......C ....A..C..
```

Figure 1G

```
                         1450
OsEPSPS_Nat AATCGACACC TACGATGATC ACAGGATGGC CATGGCCTTC TCCCTCGCTG
OsEPSPS_AT  T..T...A.. ......C.... .T.A...... T.....T... ..A..G..C.
OsEPSPS_ZM  T..A.....T ......C.... .....A..... .....G..... ..G......A.

                         1500
OsEPSPS_Nat CCTGCGCCGA CGTGCCCGTG ACGATCAGGG ACCCTGGTTG CACCCGCAAG
OsEPSPS_AT  .T..T..A.. T...T..C .A....A... .T...C... T..TA.A...
OsEPSPS_ZM  .G.....G.. ...T.G..T .....T..A. .T.....G.. ...T..T...A

                         1548
OsEPSPS_Nat ACCTTCCCCA ACTACTTCGA CGTTCTAAGC ACTTTCGTCA GGAACTGA
OsEPSPS_AT  .G.....G. ......T.. .....T... T.....TTCA .A......C .C.T....
OsEPSPS_ZM  ..T.....T. .T......... .....TCA T.G...TCA .C.T..AC .C......
```

Figure 1H

```
                1                                                    50
ZmEPSPS_Nat     ATGGCGGCCA  TGGCGACCAA  GGCCGCCGCG  GGCACCGTGT  CGCTGGACCT
ZmEPSPS_ZM      .........T. ...C..G..   ..A.G..C    ..T..A..AA  GC..C...TT.

                51                                                   100
ZmEPSPS_Nat     CGCCGCGCCG  TCGCGCCGCC  ACCACCGCCC  GAGCTCGGCG  CGCCCGCCCT
ZmEPSPS_ZM      G..G..C..C  ..C..TA.G.  ........G.. A...AGT...  A.G..A..G.

                101                                                  150
ZmEPSPS_Nat     TCCGCCCCGC  CGTCCGCGGG  CTGCGGCGCC  CGTGATCGCC
ZmEPSPS_ZM      ..A.G..A..  A..T....T   ..TA.A....  ...TA.AA.   .........A

                151                                                  200
ZmEPSPS_Nat     GCGCCGCCGG  CGGCGGCAGC  GGCGGCGGGCG  GTGCCGAGGA
ZmEPSPS_ZM      ......A.... ...T.C..    T.....A.... .........C. .C..G...A..

                201                                                  250
ZmEPSPS_Nat     GATCGTGCTG  CAGCCCATCA  AGGAGATCTC  CGGCACCGTC  AAGCTGCCGG
ZmEPSPS_ZM      ......C.A   T......     ....A....   T.T..G..A   ...T.A..A.
```

Figure 2A

```
            251                                                    300
ZmEPSPS_Nat GGTCCAAGTC GCTTTCCAAC CGGATCCTCC TACTCGCCGC CCTGTCCGAG
ZmEPSPS_ZM  .CAG...AAG T....AG.... ..A.....G. .GT.G..G.. A..C..T..A

            301                                                    350
ZmEPSPS_Nat GGGACAACAG TGGTTGATAA CCTGCTGAAC AGTGAGGATG TCCACTACAT
ZmEPSPS_ZM  .....C..G. .C..A..... T.....C... ..C..A..C. .G......T..

            351                                                    400
ZmEPSPS_Nat GCTCGGGGGCC TTGAGGACTC TTGGTCTCTC TGTCGAAGCG GACAAAGCTG
ZmEPSPS_ZM  .T.G..T... C.......G. .A.....G.. A..G.....C ..T.G..C.

            401                                                    450
ZmEPSPS_Nat CCAAAAGAGC TGTAGTTGTT GGCTGTGGTG GAAAGTTCCC AGTTGAGGAT
ZmEPSPS_ZM  .....GC.C.. ...C.C.... .....C.C. T......... C..G.....C

            451                                                    500
ZmEPSPS_Nat GCTAAAGAGG AAGTGCAGCT CTTCTTGGGG AATGCTGGAA TCGCAATGCG
ZmEPSPS_ZM  ..G.....A. .G.....T. A..TC.T... ..C....C. ...C......
```

Figure 2B

```
              501                                                    550
ZmEPSPS_Nat   GTCCTTGACA  GCAGCTGTTA  CTGCTGCTGG  TGGAAATGCA  ACTTACGTGC
ZmEPSPS_ZM    ....C.T..C  .....C.C    .....G..    .C......C.  A..C.C...
Consensus     .....c.g..a .......c...c .....g..   .c......c.. a..a..c...

              551                                                    600
ZmEPSPS_Nat   TTGATGGAGT  ACCAAGAATG  AGGGAGAGAC  CCATTGGGCGA CTTGGTTGTC
ZmEPSPS_ZM    .....C.T..  T..TC.T...  .A..C.G.    ....A.G..   TC.C.C..G

              601                                                    650
ZmEPSPS_Nat   GGATTGAAGC  AGCTTGGGTGC AGATGTTGAT  TGTTTCCCTTG GCACTGACTG
ZmEPSPS_ZM    .GC.C....   .....C.G..  C.C......   ..C......   .A..C....

              651                                                    700
ZmEPSPS_Nat   CCCACCTGTT  CGTGTCAATG  GAATCGGGAGG GCTACCTGGT  GGCAAGGTCA
ZmEPSPS_ZM    ...C.....G  A.G..G..C.  .C......G.. A..G..A..A  ......A....

              701                                                    750
ZmEPSPS_Nat   AGCTGTCTGG  CTCCATCAGC  AGTCAGTACT  TGAGTGCCTT  GCTGATGGCT
ZmEPSPS_ZM    ..T.....C.  ...A..TTC.  TCG......C. ......T.....G
```

Figure 2C

```
                                                                    800
ZmEPSPS_Nat  GCTCCTTTGG CTCTTGGGGA TGTGGAGATT GAAATCATTG ATAAATTAAT
ZmEPSPS_ZM   ..C...C...  ....G..A.. C....A..  ..G...... ....GC.G..

                                                                    850
ZmEPSPS_Nat  CTCCATTCCG TACGTCGAAA TGACATTGAG ATTGATGGAG CGTTTTGGTG
ZmEPSPS_ZM   ...T..C..T ..T..T..G. .....C.CC. TC......A  A.A..C..G.

                                                                    900
ZmEPSPS_Nat  TGAAAGCAGA GCATTCTGAT AGCTGGGACA GATTCTACAT TAAGGGAGGT
ZmEPSPS_ZM   .C.....T.. ...C.C.... TC........ .G.....T.. C.....C...A

                                                                    950
ZmEPSPS_Nat  CAAAAATACA AGTCCCCTAA AAATGCCTAT GTTGAAGGTG ATGCCTCAAG
ZmEPSPS_ZM   .G.....T.  ....A.G.. G.....G..C ..C..G..A. .C..A..G..

                                                                    1000
ZmEPSPS_Nat  CGCAAGCTAT TTCTTGGCTG GTGCTGCAAT TACTGGAGGG ACTGTGACTG
ZmEPSPS_ZM   ...G...T..C ...C.T..G. .C.....C.. C..C.G..A ..C......A.
```

Figure 2D

```
            1001                                                 1050
ZmEPSPS_Nat TGGAAGGTTG TGGCACCACC AGTTTGCAAG GTGATGTGAA GTTTGCTGAG
ZmEPSPS_ZM  ........C.. ..G..A..G ..C....... .C..C.C.. A.........

            1051                                                 1100
ZmEPSPS_Nat GTACTGGAGA TGATGGGAGC GAAGGTTACA TGGACCGAGA CTAGCGTAAC
ZmEPSPS_ZM  ..G..A..A. .......C.. T......G..T ......T.... .GTC...G...

            1101                                                 1150
ZmEPSPS_Nat TGTTACTGGC CCACCGCGGG AGCCATTTGG GAGGAAACAC CTCAAGGGCGA
ZmEPSPS_ZM  C.....G..A ..G..C..C. .A..T..C.. CC....G..T ..G..A.....

            1151                                                 1200
ZmEPSPS_Nat TTGATGTCAA CATGAACAAG ATGCCTGATG TCGGCCATGAC TCTTGCTGTG
ZmEPSPS_ZM  .......G.. .......T.. ......G..C. ......T.... A......C...

            1201                                                 1250
ZmEPSPS_Nat GTTGCCCTCT TTGCCGATGG CCCGACAGCC ATCAGAGACG TGGCTTCCTG
ZmEPSPS_ZM  ..G.....G. .C..T..C.. ..C..C..A ......G..T. .C...AGT..
```

Figure 2E

```
              1251                                             1300
ZmEPSPS_Nat   GAGAGTAAAG GAGACCGAGA GGATGGTTGC GATCCGGACG GAGCTAACCA
ZmEPSPS_ZM    ...G..C... ......A..C T......G.. .......A... ....G..T.

              1301                                             1350
ZmEPSPS_Nat   AGCTGGGAGC ATCTGTTGAG GAAGGGCCGG ACTACTGCAT CATCAGGCCG
ZmEPSPS_ZM    .A..C..G.. CAG...G... ..G..C.... T......... A.....A..T

              1351                                             1400
ZmEPSPS_Nat   CCGGAGAAGC TGAACGTGAC GGCGATCGAC ACGTACGACG ACCACAGGAT
ZmEPSPS_ZM    ..A......T ......C.. C..T...... .A....... .T....C...

              1401                                             1450
ZmEPSPS_Nat   GGCCATGGCC TTCTCCCTTG CCGCCTGTGC CGAGGTCCCC GTCACCATCC
ZmEPSPS_ZM    ...A...... ..TAG.T.G. .A..G..C.. ...A..A..T .G..T..AA

              1451                                             1500
ZmEPSPS_Nat   GGGACCCTGG GTGCACCCGG AAGACCTTCC CCGACTACTT CGATGTGCTG
ZmEPSPS_ZM    .A..T.A.. T........ .C....... .A..G..T. ...C..C..C

              1501                 1521
ZmEPSPS_Nat   AGCACTTTCG TCAAGAATTA A
ZmEPSPS_ZM    TCA..C.... .G.....C.G .
```

Figure 2F

```
                 1                                                        50
GmEPSPS_Nat  ATGGCCCAAG TGAGCAGAGT GCACAATCTT GCTCAAAGCA CTCAAATTTT
GmEPSPS_GM   ......T..G. .CTCTC.C.. T..T......C .....G..T. .C..G...A..

                 51                                                       100
GmEPSPS_Nat  TGGCCATTCT TCCAACTCCA ACAAACTCAA ATCGGTGAAT TCGGTTTCAT
GmEPSPS_GM   C..A.....C AGT......A. ........A.. G..T...... AGT..A....C

                 101                                                      150
GmEPSPS_Nat  TGAGGCCACG CCTTTGGGGG GCCTCAAAAT CTCGCATCCC GATGCATAAA
GmEPSPS_GM   .TC....T.. G..G.....A ..AAGT..GA GC..T..... T.....C..G

                 151                                                      200
GmEPSPS_Nat  AATGGAAGCT TTATGGGAAA TTTTAATGTG GGGAAGGGAA ATTCCGGCGT
GmEPSPS_GM   ..C..TTCG. .C.....G.. C.....C.C ..C..A.... .C..A...T..

                 201                                                      250
GmEPSPS_Nat  GTTTAAGGTT TCTGCATCGG TCGCCGCCGC AGAGAAGCCG TCAACGTCGC
GmEPSPS_GM   C..C..A..A AGC..CAGC. .A..T..G.. T.......C AGT..T..T.
```

Figure 3A

```
                                                                300
251
GmEPSPS_Nat CGGAGATCGT GTTGGAACCC ATCAAAGACT TCTCGGGTAC CATCACATTG
GmEPSPS_GM  .T..A..T.. TC.T.....G ..A.G..T.  .....A..... G..T...C.A

                                                                350
301
GmEPSPS_Nat CCAGGGTCCA AGTCTCTGTC CAATCGAATT TTGCTTCTTG CTGCTCTCTC
GmEPSPS_GM  ..T..A.A.  ..AG...C.. T..A.....  ..T.G..C.  .A.....G..

                                                                400
351
GmEPSPS_Nat TGAGGGAACA ACTGTTGTAG ACAACTTGTT GTATAGTGAG GATATTCATT
GmEPSPS_GM  C..A.....C .....A.C.  .T..C.CC.  T.....C..A .....A.....

                                                                450
401
GmEPSPS_Nat ACATGCTTGG TGCATTAAGG ACCCTTGGAC TGCGTGTGGA AGATGACAAA
GmEPSPS_GM  .T...T.G.. G..GC.C..A ..T.....G. .AA.A..T.. G..C...T..G

                                                                500
451
GmEPSPS_Nat ACAACCAAAC AAGCAATTGT TGAAGGCTGT GGGGGATTGT TTCCCACTAG
GmEPSPS_GM  ..T..T....  .T.C..C... .....T...  ..C..G....  .C..T...TC
```

Figure 3B

```
            501                                      550
GmEPSPS_Nat TAAGGAATCT AAAGATGAAA TCAATTTATT CCTTGGAAAT GCTGGTATCG
GmEPSPS_GM  ...A...AG. .........G. .A...C...G.. T.....C..C ..A...A....

            551                                      600
GmEPSPS_Nat CAATGAAGTC CTTGACAGCA GCTGTGGTTG CTGCAGGTGG AAATGCAAGC
GmEPSPS_GM  ........AG .C.C.C...T ........ .G..G..... T..C...T..T

            601                                      650
GmEPSPS_Nat TACGTACTTG ATGGGGTGCC CCGAATGAGA GAGAGGCCAA TTGGGGATTT
GmEPSPS_GM  .....CT.A. .C.C..... TA.....C.. ..A.A...T. .C..T....C.

            651                                      700
GmEPSPS_Nat GGTTGCTGGT CTTAAGCAAC TTGGGTGCAGA TGTTGATTGC TTTCTTGGCA
GmEPSPS_GM  A.G.....C ..A...A.G. .....A.... C.C.....T ..CT.G....

            701                                      750
GmEPSPS_Nat CAAACTGTCC ACCTGTTCGT GTAAATGGGA AGGGAGGACT TCCTGGCGGA
GmEPSPS_GM  ....T.C.. G..C..GA.A ..G..C..... ........CT. G..A....T
```

Figure 3C

```
         751
GmEPSPS_Nat  AAGGTGAAAC  TGTCTGGATC  AGTTAGCAGT  CAATACTTGA  CTGCTTTGCT  800
GmEPSPS_GM   ......T...  .A..C.....  G..CTCGTCA  ..G...C.A.  .....A....

         801
GmEPSPS_Nat  TATGGCAGCT  CCTTTAGCTC  TTGGTGATGT  GGAAATTGAG  ATTGTTGATA  850
GmEPSPS_GM   C.....C..C  ..GC.C...T  .G..G..C..  ...G.....A  ..C..C....

         851
GmEPSPS_Nat  AACTGATTTC  TGTTCCATAT  GTTGAAATGA  CTCTGAAGTT  GATGGAGCGT  900
GmEPSPS_GM   .GT.....AG  C..G..T...  ..G.......  .C..C..A..  .......A.G

         901
GmEPSPS_Nat  TTTGGAGTTT  CTGTGGAACA  CAGTGGTAAT  TGGGATAGGT  TCTTGGTCCA  950
GmEPSPS_GM   ..C.......  .G..A.....  .TCC..G...  ......C...  .TC.T..A..

         951
GmEPSPS_Nat  TGGAGGTCAA  AAGTACAAGT  CTCCTGGCAA  TGCTTTTGTT  GAAGGTGATG  1000
GmEPSPS_GM   C.....G...  .........AA  GC..A.....  ..C..C..C.  .....G...C.
```

Figure 3D

```
                                                              1050
GmEPSPS_Nat CTTCAAGTGC CAGTTATTTA CTAGCTGGTG CAGCAATTAC TGGTGGGACT
GmEPSPS_GM  ....G..C.. TTCC...C.C ...C...... ...C..A... C......C..C

                                                              1100
GmEPSPS_Nat ATCACTGTTA ATGGCTGTGG CACAAGCAGT TTACAGGGAG ATGTAAAATT
GmEPSPS_GM  ..A..C..G. .C......C.. ...CTCATCC C.T..A..T. .......G...

                                                              1150
GmEPSPS_Nat TGCTGAAGTT CTTGAAAAGA TGGGAGCTAA GGTTACATGG TCAGAGAACA
GmEPSPS_GM  C.....G..C T.G..G..A. ...C...A.. ...C...... ..T.......

                                                              1200
GmEPSPS_Nat GTGTCACTGT TTCTGGACCA CCACGAGATT TTTCTGGTCG AAAAGTCTTG
GmEPSPS_GM  .C..A..C.. G.C.....T .CA....C. ..CG...A. ...G...C.T

                                                              1250
GmEPSPS_Nat CGAGGCATTG ATGTCAATAT GAACAAGATG CCAGATGTTG
GmEPSPS_GM  A.G..A..A. ...G..... ...T...... ...G.. .T.....G..
```

Figure 3E

```
                    1251 TGCTGTTGTT GCACTATTTG CTAATGGTCC CACTGCTATA AGAGATGTGG    1300
GmEPSPS_Nat
GmEPSPS_GM          C.........C ...C..G..C. .A..C..A.. T..C....... ..G.....C.

                    1301 CAAGTTGGAG AGTTAAAGAG ACTGAGAGGA TGATAGCAAT CTGCACAGAA    1350
GmEPSPS_Nat
GmEPSPS_GM          .TTCA...C. T.....G..A ..C..AC... ...C..T.. T.......C..G

                    1351 CTCAGAAAGC TAGGAGCAAC AGTTGAAGAA GGTCCTGATT ACTGTGTGAT    1400
GmEPSPS_Nat
GmEPSPS_GM          T.GC.T.... .G..T..... G..G...... ..A..A..C. .T.C......

                    1401 TACTCCACCT GAGAAAATTGA ATGTCCACAGC TATAGACACA TATGATGACC   1450
GmEPSPS_Nat
GmEPSPS_GM          A..A..T... ..A..GC.C. ....G..C.. ...T.....T .....C..T.

                    1451 ACAGAATGGC CATGGCATTC TCTCTTGCTG CTTGTGGGGA TGTTCCAGTA    1500
GmEPSPS_Nat
GmEPSPS_GM          .......... T......... ..A....... .......... ..C.T.. C.G.G..T
```

Figure 3F

```
                                                                   1550
1501
GmEPSPS_Nat ACCATCAAGG ATCCTGGTTG CACCAGGAAG ACATTTCCTG ACTACTTTGA
GmEPSPS_GM  ..G....... .C..A..G.. T..T...... .....C..A. .T.........

                                          1578
1551
GmEPSPS_Nat AGTCCCTTGAG AGGTTAACAA AGCACTAA
GmEPSPS_GM  G..GT.G..A ..A..G.... .......G.
```

Figure 3G

```
          1                                                50
BAR1_Nat  ATGAGCCCAG AACGACGCCC GGCCGACATC CGCCGTGCCA CCGAGGCGGA
BAR1_ZM   ...TCG..T. .G..C.T..  T..T....A  A.A..C..T. ......A..
BAR1_AT   ......T.... ..A.GA.A.. ...T..T..T ..GA.A.... ...A..T..

          51                                              100
BAR1_Nat  CATGCCGGCG GTCTGCACCA TCGTCAACCA CTACATCGAG ACAAGCACGG
BAR1_ZM   .....T.T   ...T...... T.G.T..    ........   .TCT....
BAR1_AT   T....T..T  ..T..T.A   .....A.... T..T...... ..CTCG..A.

          101                                             150
BAR1_Nat  TCAACTTCCG TACCGAGCCG CAGGAACCGC AGGACTGGAC GGACGACCTC
BAR1_ZM   A.....C.T. .A.....T   .A......... ....T..... C....T...
BAR1_AT   .T..T..T.. ..C..T     ....T..    ...G..A.   ....T..... .....T..G

          151                                             200
BAR1_Nat  GTCCGTCTGC GGGAGGCGCTA TCCCTGGCTC GTCGCCGAGG TGGACGGGCGA
BAR1_ZM   ..G....CA  A....T.     .....G....  ..G.....G  ..T.A.... ......T..
BAR1_AT   ..A...T.AA .A...T      ..A..A..T.  ...G.....A ..T.T.... .T.....A..
```

Figure 4A

```
          201                                           250
BAR1_Nat  GGTCGGCCGGC ATCGCCTACG CGGGCCCCTG GAAGGCACGC AACGCCTACG
BAR1_ZM   A..G..T..G  .........  T...A..G.. .......TA.A ......A....
BAR1_AT   A.....T..T  ..A..T.... .T..A..G.. ..A..T..T  .....T....

          251                                           300
BAR1_Nat  ACTGGACGGC CGAGTCGACC GTGTACGTCT CCCCCCGCCA CCAGCGGACG
BAR1_ZM   .T.....T.. G.....C..A ...C......  .A..A.A..  T..AA.A..C
BAR1_AT   ......A..  A..A..C..T ..C......A G...T..T.. T..AA.A..C

          301                                           350
BAR1_Nat  GGACTGGGCT CCACGCTCTA CACCCACCTG CTGAAGTCCC TGGAGGCACA
BAR1_ZM   ..G..C....  .G..C.....  T..G..T..C ..C.....T  .A.....G...
BAR1_AT   ...T.A..GA G.....T.G.  ...T..T..T T.A.....A.  .........

          351                                           400
BAR1_Nat  GGGCTTCAAG AGCGTGGTCG CTGTCATCGG GCTGCCCAAC GACCCGAGCG
BAR1_ZM   ........A  TCT..A.G.  .G.G......  CT....A...  ..T..C..T.
BAR1_AT   A.........  TCT..T..G.  .A..T..T.. AT....A...  ..T.....T.
```

Figure 4B

```
         401                                            450
BAR1_Nat TGCGCATGCA CGAGGCGCTC GGATATGCCC CCCGGCGGCAT GCTGCGGGGCG
BAR1_ZM  ..A.A..... ......A... .T..C..T.  .TA.A..A.. ...CA.....
BAR1_AT  .T..A..... ......A... ......C..T. .A..A..T.. ...C..T..T

         451                                            500
BAR1_Nat GCCGGCTTCA AGCACGGGAA CTGGCATGAC GTGGGTTTCT GGCAGCTGGA
BAR1_ZM  ..T..A.... ......T... T.....C... ..T.C..... ....A.....
BAR1_AT  .....A.... ....A.T..A ......C... .A.....T.. ....A.....

         501                                            550
BAR1_Nat CTTCAGCCTG CCGGTACCGC CCCGTCCGGT CCTGCCCGTC ACCGAGATCT
BAR1_ZM  ....TCTT.. ..A.T..A.. .T.....T.. G.A....... ....A.....
BAR1_AT  ...TTCA..T ..C..T..C. .TA.A..T.. A..T..A..T ..T..A.....

         551
BAR1_Nat GA
BAR1_ZM  AG
BAR1_AT  AG
```

Figure 4C

```
            1                                                              60
CTP2CP4NAT  ATGGGCGCAAG TTAGCAGAAT CTGCAATGGT GTGCAGAACC CATCTCTTAT ·CTCCAATCTC
CTP2CP4_ZM  .......... .A..T..... .....C..C ....G..G.. .G..G.. .....C...
CTP2CP4_AT  ....C.G. .A..T..G. ...T..C.A ..C..A.... .T..A.A.. A..G..C..G
CTP2CP4_GM  .......C... .......... .....C... .........T ....A.A.. .....C..G

            61                                                            120
CTP2CP4NAT  TCGAAATCCA GTCAACGCAA ATCTCCCTTA TCGGTTTCTC TGAAGACGCA GCAGCATCCA
CTP2CP4_ZM  AGC..G.. ..C.G.G.. G.G..GC.C ....CAGC. .C...C. A....C..G
CTP2CP4_AT  .A...AG.T C....A.A. G..G..GC.T ...T.A..GT ...A.T.. A....C..G
CTP2CP4_GM  ..C.....GT CA.....T. G..G..A... ..T...AGCT ....T... ...A....T

            121                                                           180
CTP2CP4NAT  CGAGCTTATC CGATTTCGTC GTCGTGGGGA TTGAAGAAGA GTGGGATGAC GTTAATTGGC
CTP2CP4_ZM  A.G..C.C. .T..CAGC. A.C...... .C.C.....C C.C.... ...C.G.C..
CTP2CP4_AT  A.G....... .C.C..AAG C.C......T C.A..... ...A.... .A..AC.G..T
CTP2CP4_GM  ..C.A.... .T.A..AAG CAGT.....T .........AT CG..T.... C..G.....T

            181                                                           240
CTP2CP4NAT  TCTGAGCTTC GTCCTCTTAA GGTCATGTCT TCTGTTTCCA CGGCGTGCAT GCTTCACGGT
CP2CP4_ZM   AGC.....G. .G..A..C. ......G.... ..G..C.A. .......... .........
CTP2CP4_AT  AGC...A.A. .A..G.G.. A.......C .A..CAG.. .T....... ....T..A
CTP2CP4_GM  ..G..A...A .G..AT.G.. ...G....... .A...AGT. .A...T... .........
```

Figure 5A

```
                                                                      300
241
       GCAAGCAGCC  GGCCCGCAAC  CGCCCGCAAA  TCCTCTGGCC  TTTCCGGAAC  CGTCCGCATT
CTP2CP4NAT
CTP2CP4_ZM  .........  .....G....  ....T.....  ..T....G..  ....G.....  G...A.G...
CTP2CP4_AT  ..TTCATCTA  ....A..T..  T...A.G..G  .TAGC..G.  .CAGT..C..  ...G....C
CTP2CP4_GM  ..TTCTTC.A  .A........  G..TA.A..G  AGT......T  .G..T.....  .T.....
```

```
                                                                      360
301
       CCCGGGGACA  AGTCGATCTC  CCACCGGTCC  TTCATGTTCG  GCGGGTCTCGC  GAGCGGGTGAA
CTP2CP4NAT
CTP2CP4_ZM  .G.....T..  ....C.A...  .......G..  ..........  ....T.....  ......G
CTP2CP4_AT  .T.....T.  AAGT.T...  A..A..AG.  ..........  ..A..T...  T..T..A..G
CTP2CP4_GM  .A..A....  .AAGC..TAG  T.....C..T  ..........  ....T.....  ATCT..A..G
```

```
                                                                      420
361
       ACGCGCATCA  CCGGCCTTCT  GGAAGGGCGAG  GACGTCATCA  ATACGGGCAA  GGCCATGCAG
CTP2CP4NAT
CTP2CP4_ZM  ..........  .G....G...  .G....T....  .....G....  ...C.G....  ......A
CTP2CP4_AT  ...A.A....  .T..TT.G.  T.G....A  ..T..T...  ..C..T...  .G....A
CTP2CP4_GM  ..........  .T..T.....  ....A.....  ..........  .....A.G..  .A......
```

```
                                                                      480
421
       GCGATGGGGCG  CCCGGCATCCG  TAAGGAAGGC  GACACCTGGA  TCATCGATGG  CGTCGGCAAT
CTP2CP4NAT
CTP2CP4_ZM  ..T...A.  .G..T.....  C........T  .......A..  ...A.....  ....T..G..
CTP2CP4_AT  ..A...T.  ...A.A....  A..A..G...  ..T.G....  .....C...  T.T.T.
CTP2CP4_GM  ..T......  .......T..  ...T..T..C  .......T..  ..........  A..T..G..
```

Figure 5B

```
            481
CTP2CP4NAT  GGCGGCCTCC TGGCGCCTGA GGCGGCCGCTC GATTTCGGCA ATGCCGCCAC GGGCTGCCGC
                                                                              540
CTP2CP4_ZM  .....T..G. .C.C...... ...C.T.... ...C...... ...G..G... .......A.G
CTP2CP4_AT  ..A..AT.G. .C.T..C... ...A...A..T ..C..T..G. .C..A..T.. ...G.....T
CTP2CP4_GM  ..T...T.A. ..T..A.G.. ...T...T... ..C..T.... .C..A..... A.G..TA.A

            541
CTP2CP4NAT  CTGACGATGG GCCTCGTCGG GGTCTACGAT TTCGACAGCA CCTTCATCGG CGACGCCCTCG
                                                                              600
CTP2CP4_ZM  ..C..T.... ..A..G.... ...G....C .....T.... .G........ A.........
CTP2CP4_AT  ..T...T... ...A.G.A.. ...C.G.T.C ....T...TCT .......T.. T.....GAGC
CTP2CP4_GM  ..T..T.... .......... ......G... ....TTCA. .......T.T. G..T......T

            601
CTP2CP4NAT  CTCACAAAGC GCCCGATGGG CCGCGTGTTG AACCCGCTGC GCGAAATGGG CGTGCAGGTG
                                                                              660
CTP2CP4_ZM  .......... ......A... ...TC..... ...........T ....G..... .....A....C
CTP2CP4_AT  .....T..A .A.A...... ..A..A..C. .T.C...A .G.G..... .T.C......
CTP2CP4_GM  ......T.A. .....A.... AA.A..CC.T .....T..A .G...G.... ...A..A..T

            661
CTP2CP4NAT  AAATCGGAAG ACGGTGACCG TCTTCCCGTT ACCTTGCGCG GGCCGAAGAC GCCGACGCCG
                                                                              720
CTP2CP4_ZM  .....C..G. .....T.... ..T.G..... ...GC...... ...T.C... ...T.C....G
CTP2CP4_AT  .....T..G. ..T..G.... ..T...G... .TC...A. .C..C..... C.C.....A
CTP2CP4_GM  ..G..C..G. ..G.C.G. ...C...A. AT.G.....C ........ C.T..... A..C...C..T
```

Figure 5C

```
        721
        ATCACCTACC  GCGTGCCGAT  GGCCTCCGCA  CAGGTGAAGT  CCGCCGTGCT  GCTCGCCGGC  780
CTP2CP4NAT
CTP2CP4_ZM  ..T.......  .......A..  ...A....C  .....C....  .A.....C  C.......A
CTP2CP4_AT  ....G...A  .G...T...  ...G..A...  ......C....  .A..G..A.  C..G..g...
CTP2CP4_GM  ..T...A  ..G..T.A..  ...A..T..T  ...A.......  ...A..T.  ....T...A

        781
        CTCAACACGC  CCGGCATCAC  GACGGTCATC  GAGCCGATCA  TGACGGCGGA  TCATACGGAA  840
CTP2CP4NAT
CTP2CP4_ZM  .G....T  .G........  C.....G...  ....C....  ...CA.G..  .......C
CTP2CP4_AT  .....A.  .T.A.....  A..C..G..T  ..A.C....  ...TA.A..  C.....,G
CTP2CP4_GM  T.G.....A.  .G..T..T.  T..C..G..T  ......T..  ...T..T.  C..C..T..G

        841
        AAGATGCTGC  AGGGCTTTGG  CGCCAACCTT  ACCGTCGAGA  CGGATGCGGA  CGGCGTGCGC  900
CTP2CP4NAT
CTP2CP4_ZM  .......T  ...G......  .......G  .G........  ...C..T...  .......CA.G
CTP2CP4_AT  ......T.  ...T.C.  ...T.T..A  ..G...A.  .C.C..C..  .C.C...A.G
CTP2CP4_GM  ......T.  ...T.C.  T.T.....C  ....T.A.  ..A.C....  ...T...A.G

        901
        ACCATCCGCC  TGGAAGGCCG  CGGCAAGCTC  ACCGGCCAAG  TCATCGACGT  GCCGGGCGAC  960
CTP2CP4NAT
CTP2CP4_ZM  .......  T.G...A.  G..T..A..G  ..T.......  ...T......  T...A...
CTP2CP4_AT  ..A...T  ..G..A.  A..T..A..G  .T.......  ...T......  .T.A..T
CTP2CP4_GM  ......T.  ...G..AA.  G..A..A...  ....T.....  ...T......  ...C..T..T
```

Figure 5D

```
                                                                    1020
961
CTP2CP4NAT  CCGTCCTCGA  CGGCCTTCCC  GCTGGTTGCG  GCCCTGCTTG  TTCCGGGCTC  CGACGTCACC
CTP2CP4_ZM  .....G..C.  ..........  .......T..  .....C....  .G.....GAG  T.....G...
CTP2CP4_AT  ..C..G..C.  .A..G..T..  C...C..A..T ..GT....C.  .C..T..A..  T..T..G..G
CTP2CP4_GM  ..C...AGC.  .....G....  A.........C ..T....T.C  .A..A.....  ...T..G..A

                                                                    1080
1021
CTP2CP4NAT  ATCCTCAACG  TGCTGATGAA  CCCCACCCGC  ACCGGCCTCA  TCCTGACGCT  GCAGGAAATG
CTP2CP4_ZM  .....G....  .C..C.....  .....G....  .......G..  .....C....  T.....G...
CTP2CP4_AT  .....G..T.  .C..C.....  .G..A.G...  T.A..TA.A  ...C..AT.  .....G....
CTP2CP4_GM  ..T..A....  .C..C.....  T.T..TA.A  T.T..TA.A  .A..T..AT.  .........

                                                                    1140
1081
CTP2CP4NAT  GGCGCCGACA  TCGAAGTCAT  CAACCCGCGC  CTTGCCGGGCG GCGAAGACGT  GGCGGACCTG
CTP2CP4_ZM  .A.......  ...G..G..  .........  .G..A.....  T.......  T.....T...
CTP2CP4_AT  ..T..T..T.  ...G..T..  ...T..TA.G T.G..A.T.  .A..G..T.  ..C..T....
CTP2CP4_GM  ..T..T..T.  ...T..T..  ...T..TA.A ..A......A.  .T..G....  .A..T..TT.

                                                                    1200
1141
CTP2CP4NAT  CGCGTTCGCT  CCTCCACGCT  GAAGGGGCGTC ACGGTGCCGG  AAGACCGCGC  GCCTTCGATG
CTP2CP4_ZM  .....G....  ...T..C...  .........G  .....C....  .....T....  .....G..C.
CTP2CP4_AT  .....G..T.  .TAGT..A.  C..A.....G  ..C..T..  .G..T.....  ..T..A..C.
CTP2CP4_GM  ..G..GA.G.  .T..T..AT  .A..T..T  ...A..T  ...TA.G..  .A.....A...
```

Figure 5E

```
            1201                                                      1260
CTP2CP4NAT  ATCGACGAAT ATCCGATTCT CGCTGTCGCC GCCGCCTTCG CGGAAGGGGC GACCGTGATG
CTP2CP4_ZM  ..A...G.   ...T.....  G..C.....  ..C.T.G..  .C.......  C..G..C...
CTP2CP4_AT  ...G.      .C..C..    ...C..T.T  T..G..T.   .C..G..C.  A..T..A...
CTP2CP4_GM  ..T...G.   .....A.... ..T...C..G ....T...   .T.G..C.   ....

            1261                                                      1320
CTP2CP4NAT  AACGGTCTGG AAGAACTCCG CGTCAAGGAA AGCGACCGCC TCTCGGCCGT CGCCAATGGC
CTP2CP4_ZM  .....T.    .G......   ..G......  TCG.T....  .G...G.    G.........G
CTP2CP4_AT  ....C.T.   G..GT.GA.  .G.T...G   .T...A.G.  .G..C.G..  G........T.
CTP2CP4_GM  .T..A..A.  .G..GT.GA. A..G.....  TC....A.AT .GAGC..A.. ..T..C..A

            1321                                                      1380
CTP2CP4NAT  CTCAAGCTCA ATGGGCGTGGA TTGCGATGAG GGCGAGACGT CGCTCGTCGT GCGTGGCCGC
CTP2CP4_ZM  .G......   ..C.T..T.  C.....C..  .A...G.    C...C.     .....G
CTP2CP4_AT  .G....A.   C.........  C....C..A  .C..T.A..  .C.T.A.    .....T...
CTP2CP4_GM  ..T..A..   .T..A.     .:T......  .:.T.....  .....TA    GCT.G..A..  C......G..A

            1381                                                      1440
CTP2CP4NAT  CCTGACGGGCA AGGGGCTCGG CAACGCCCTCG GGCGGCCGCCG TCGCCACCCA TCTCGATCAC
CTP2CP4_ZM  ...:..T.    ...C....   ......AGT   .A..G....   ......G.   C......T
CTP2CP4_AT  .A...G.    .T.G..     G.T.T...   .A..T.     .G.G..G.   C..T....T
CTP2CP4_GM  .A.....A.  .A.....    .TT.G..    ......T.   .T.A..T.   CT.G....T
```

Figure 5F

```
            1441                                                              1500
CTP2CP4NAT  CGCATCGCCA TGAGCTTCCT CGTCATGGGC AAAACCCTGT CTCGTGTCGG CACGGTGGAC
CTP2CP4_ZM  .........G. ..TC....T. G..G.....T .G.....G.. ....C..A. .G..C..C..T
CTP2CP4_AT  A.A....... ..TCA..T.. G..G.....A ..T..C.C. .G.T..G.. .G..C..T...
CTP2CP4_GM  ..G..A..G. ...T..T.. G..G.....T ....AAGC. .G..T..... G..A..C...

            1501                                                              1560
CTP2CP4NAT  GATGCCACGA TGATCGCCAC GAGCTTCCCG GAGTTCATGG ACCTGATGGC CGGGCTGGGC
CTP2CP4_ZM  ..C....... ....A.G.. .........A .T........ ....T..... G.C..C..G
CTP2CP4_AT  .....T.C. ...T..T. .CTC...T..T ...C...... A..CT....G
CTP2CP4_GM  .....A..T. ....T. ..TTC.....T .TT.A..... A..A..A..T

            1561                                   1596
CTP2CP4NAT  GCGAAGATCG AACTCTCCGA TACGAAGGCT GCCTGA
CTP4CP4_ZM  .C........ ..G.T... C.....C ..T....
CTP2CP4_AT  .C........ .G.G.T.. ..T....C ..T....
CTP2CP4_GM  ..A.....T. .......T. ..C..A.G .....A.
```

Figure 5G
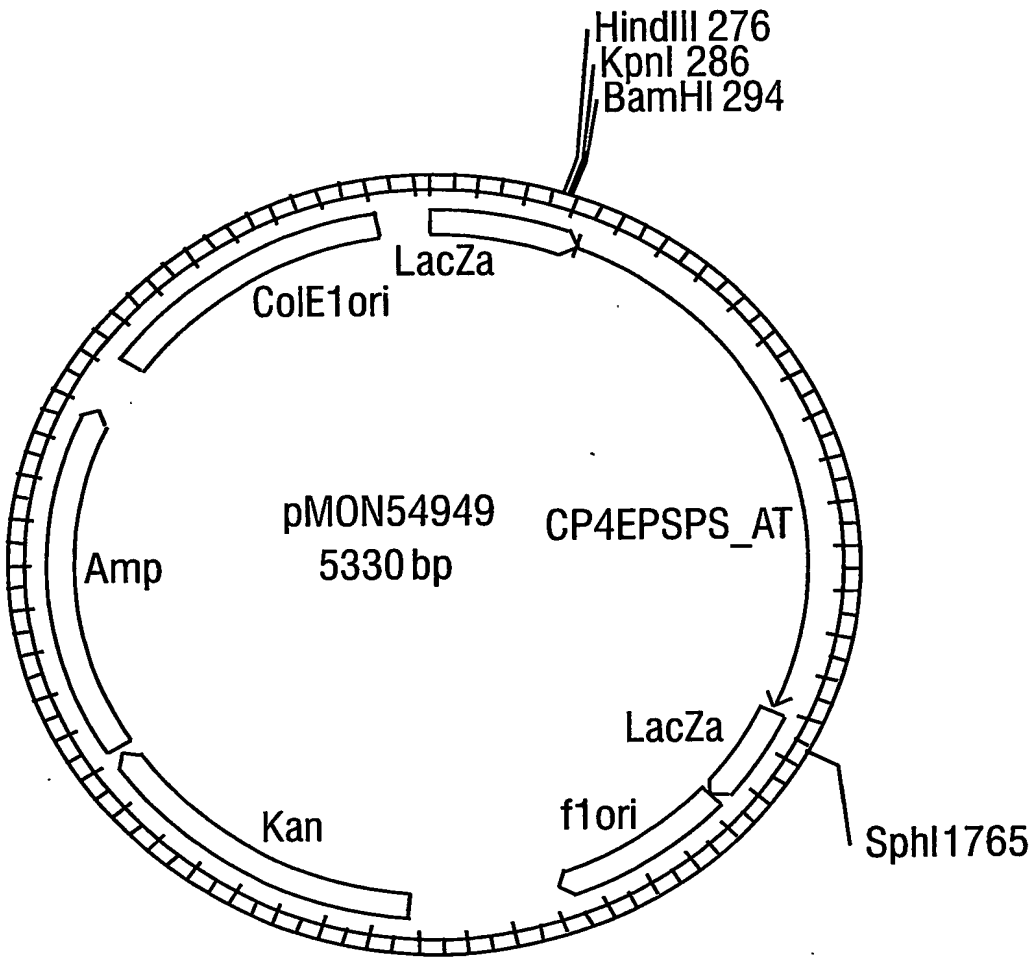
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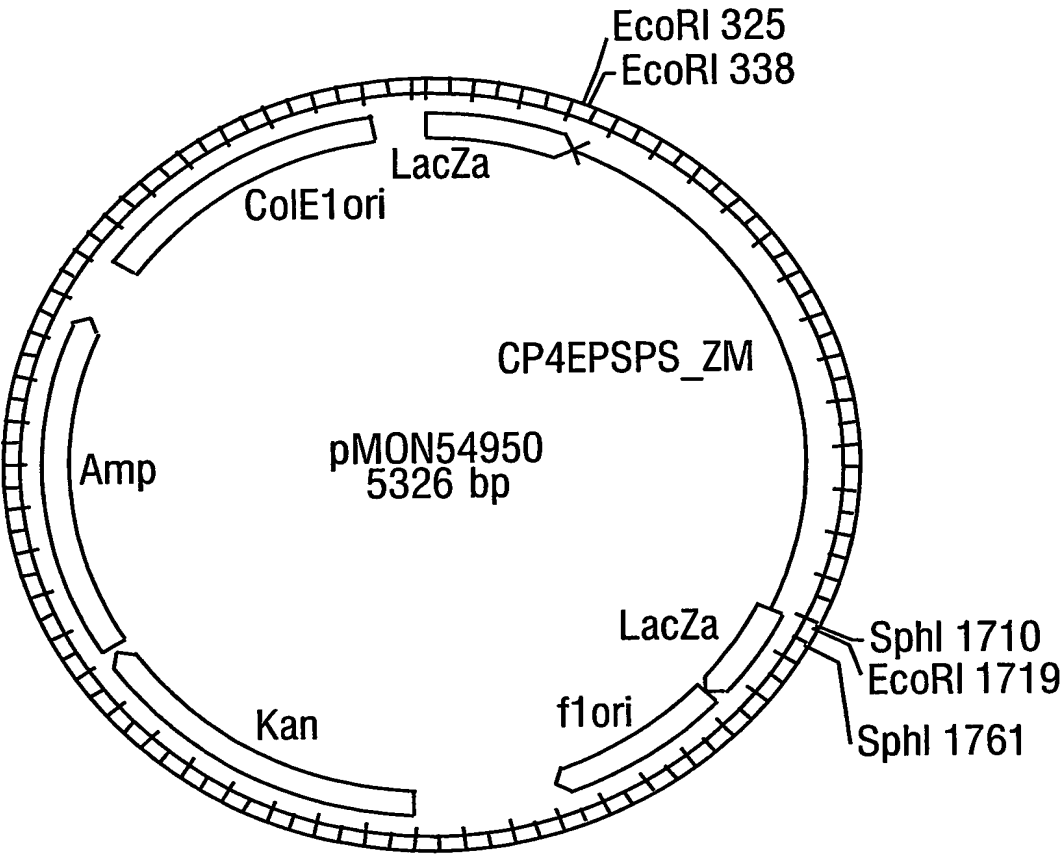
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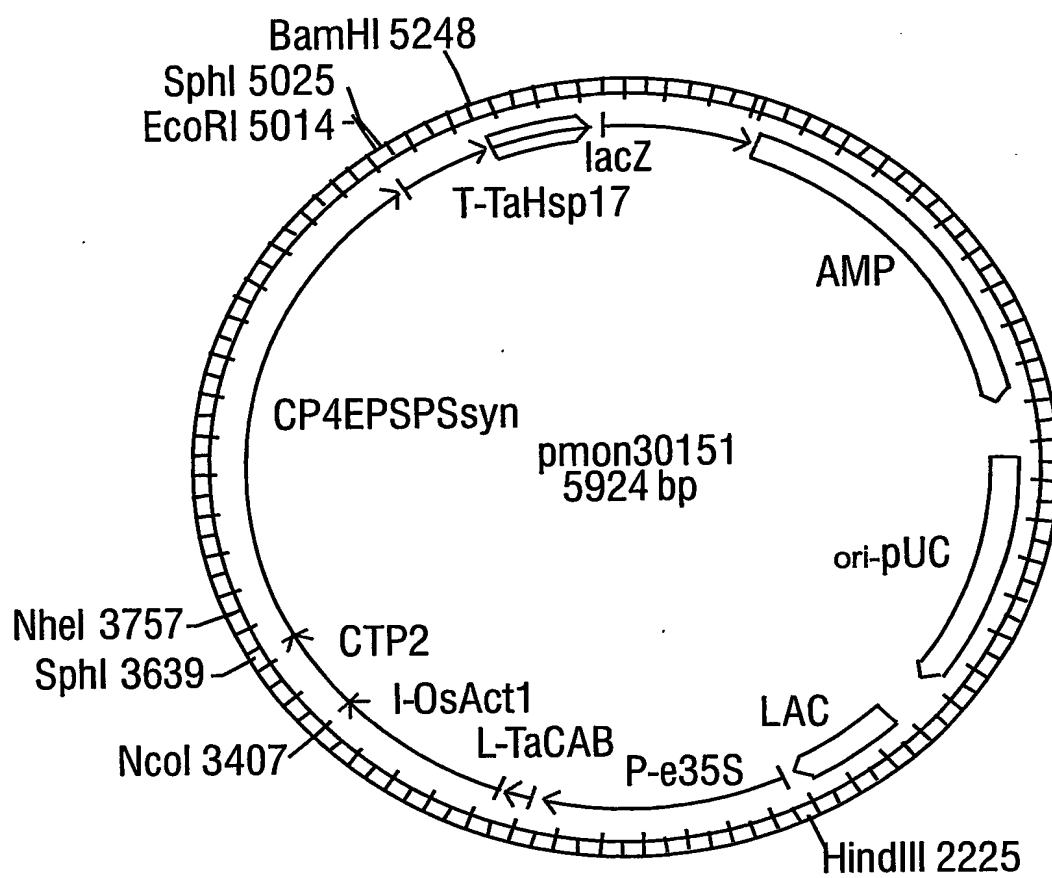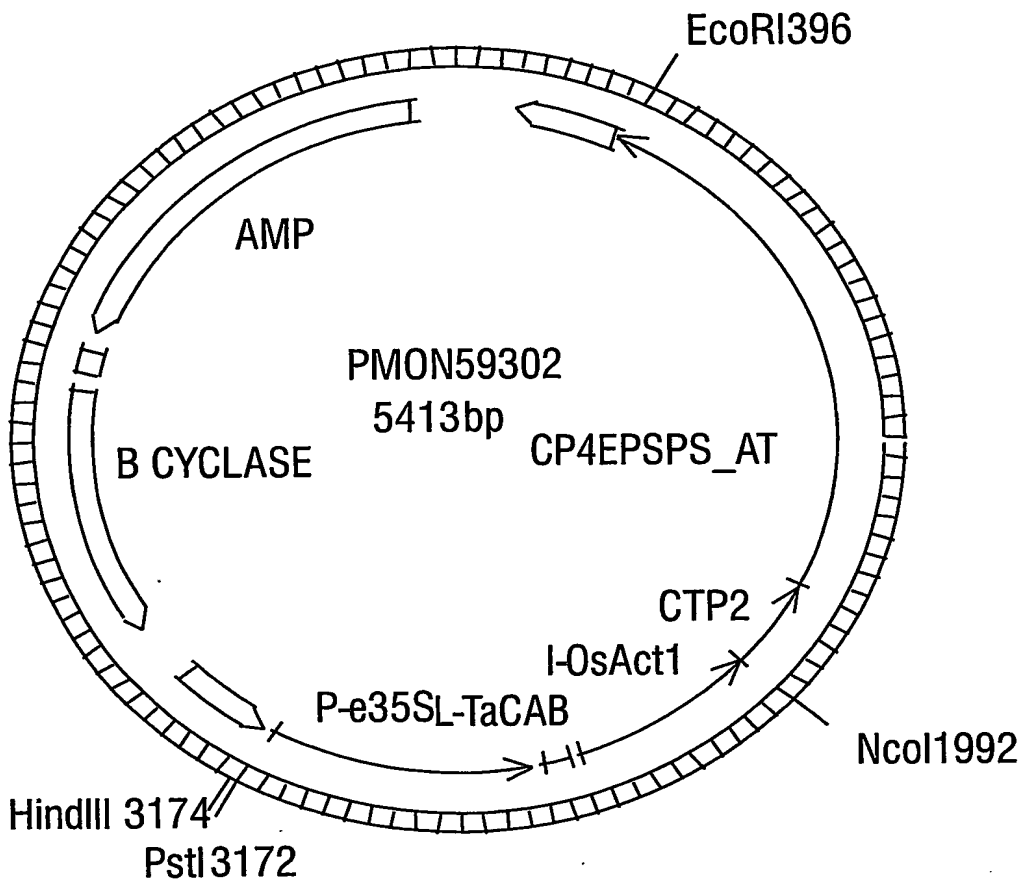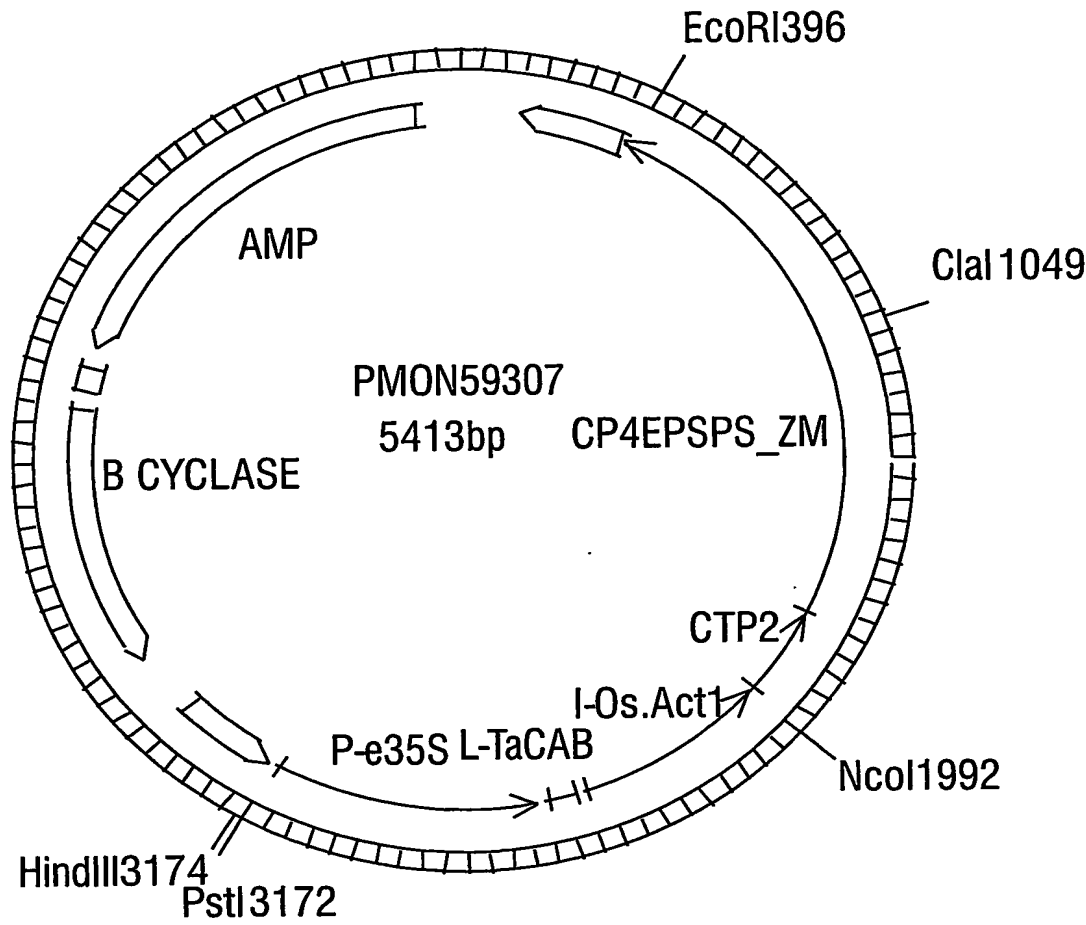
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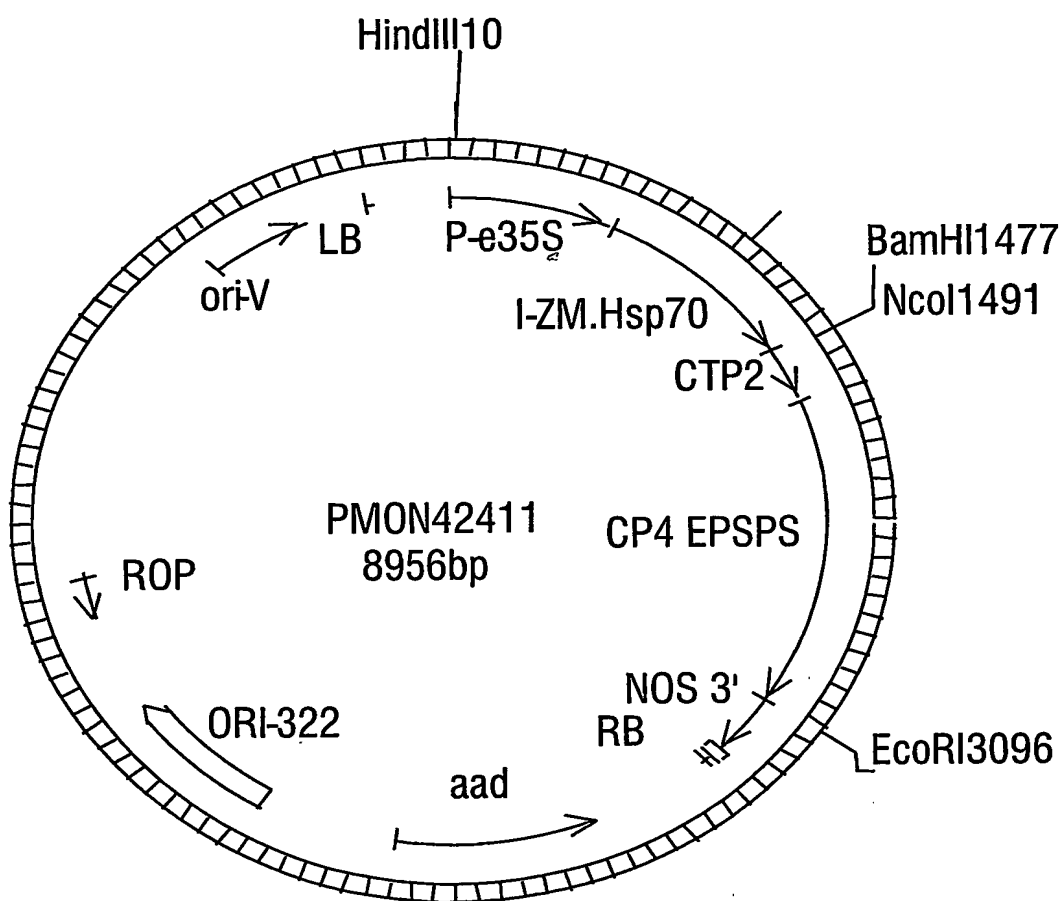
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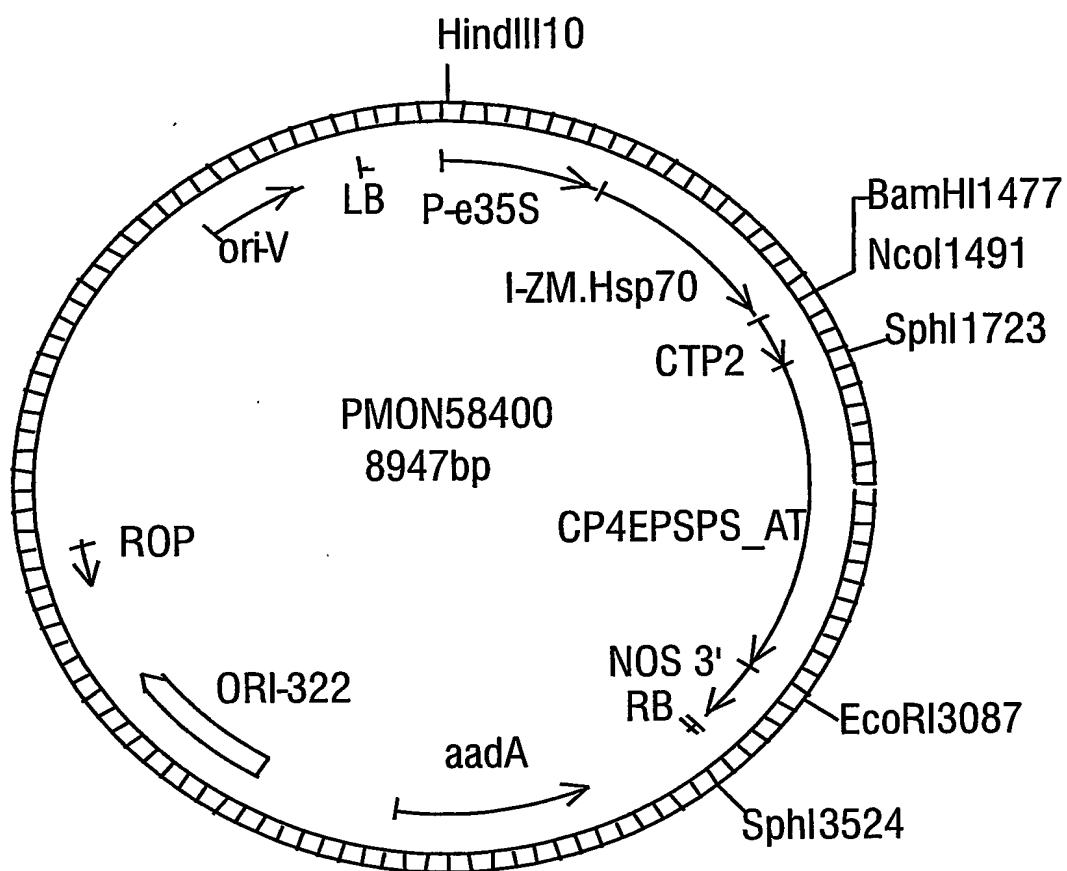
Figure 10

Figure 11

Figure 12

Figure 13
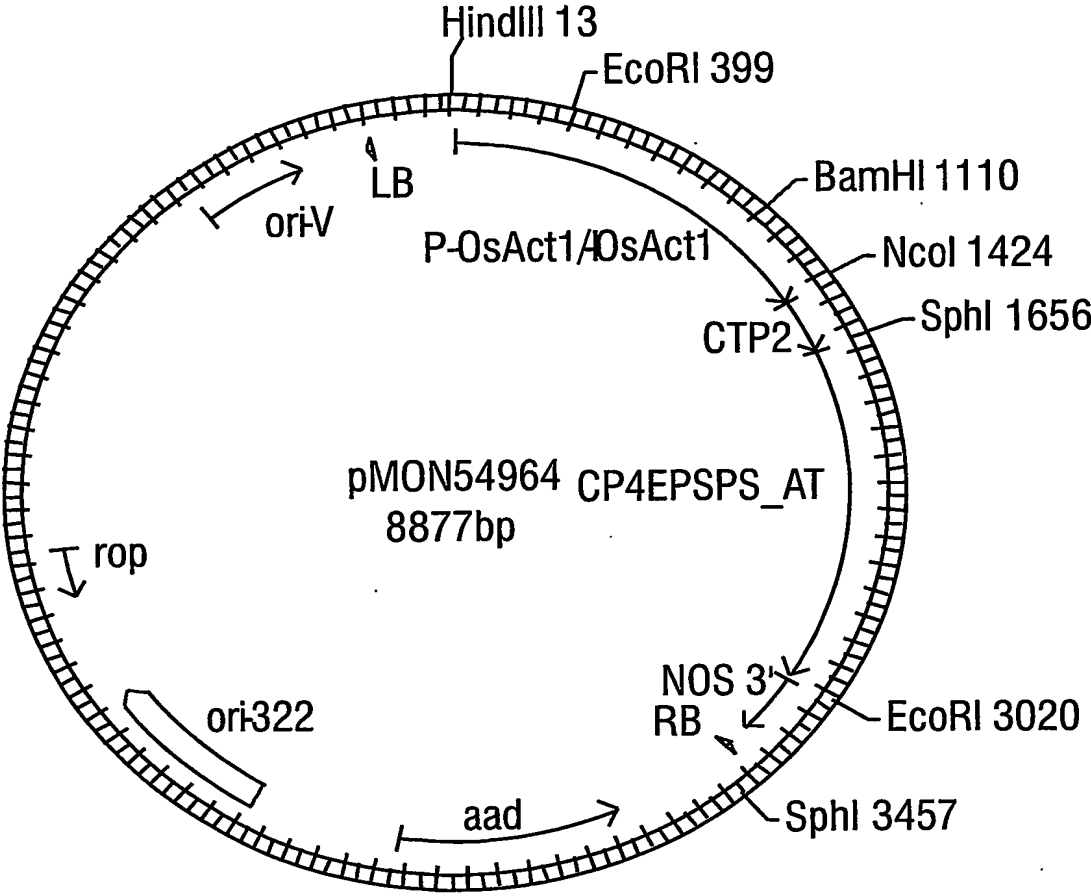
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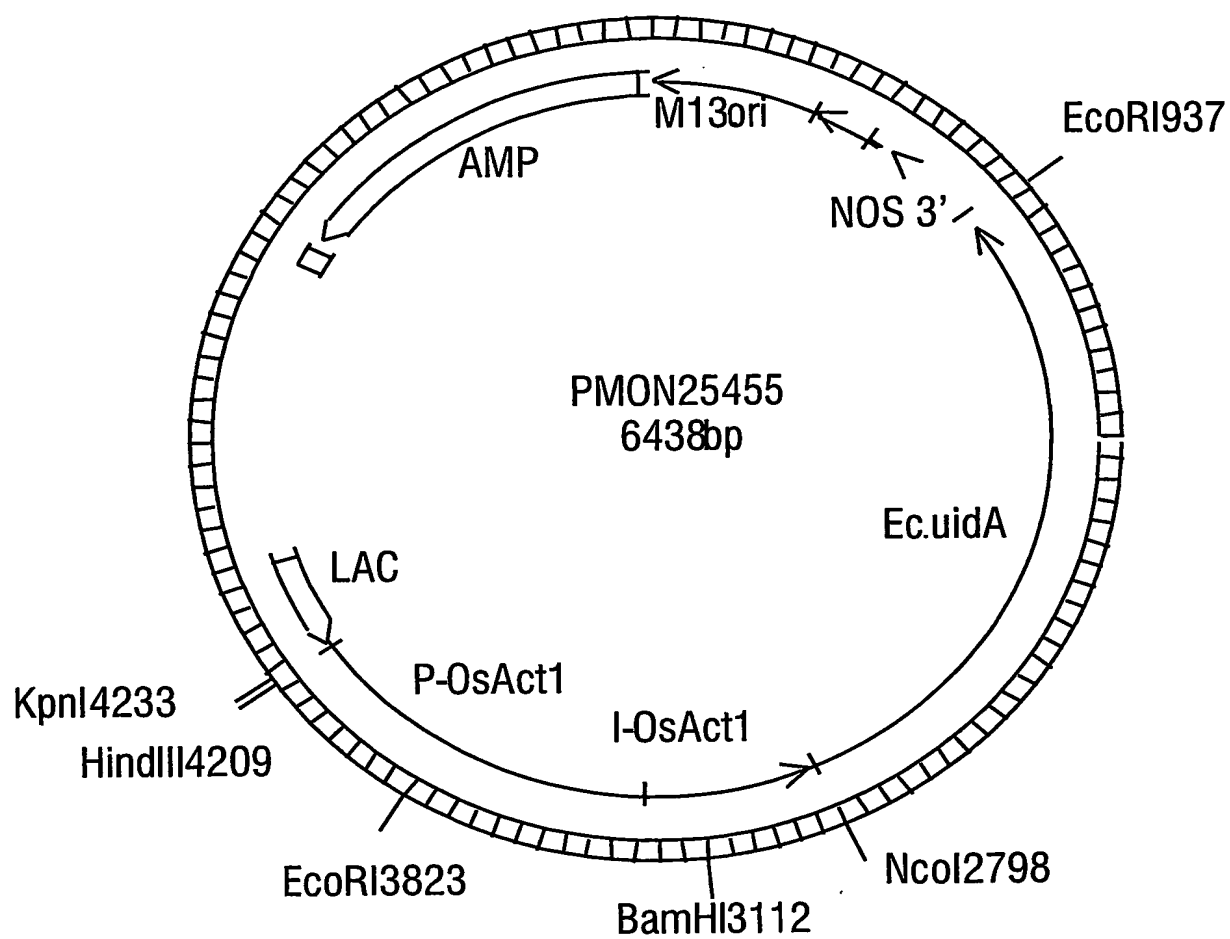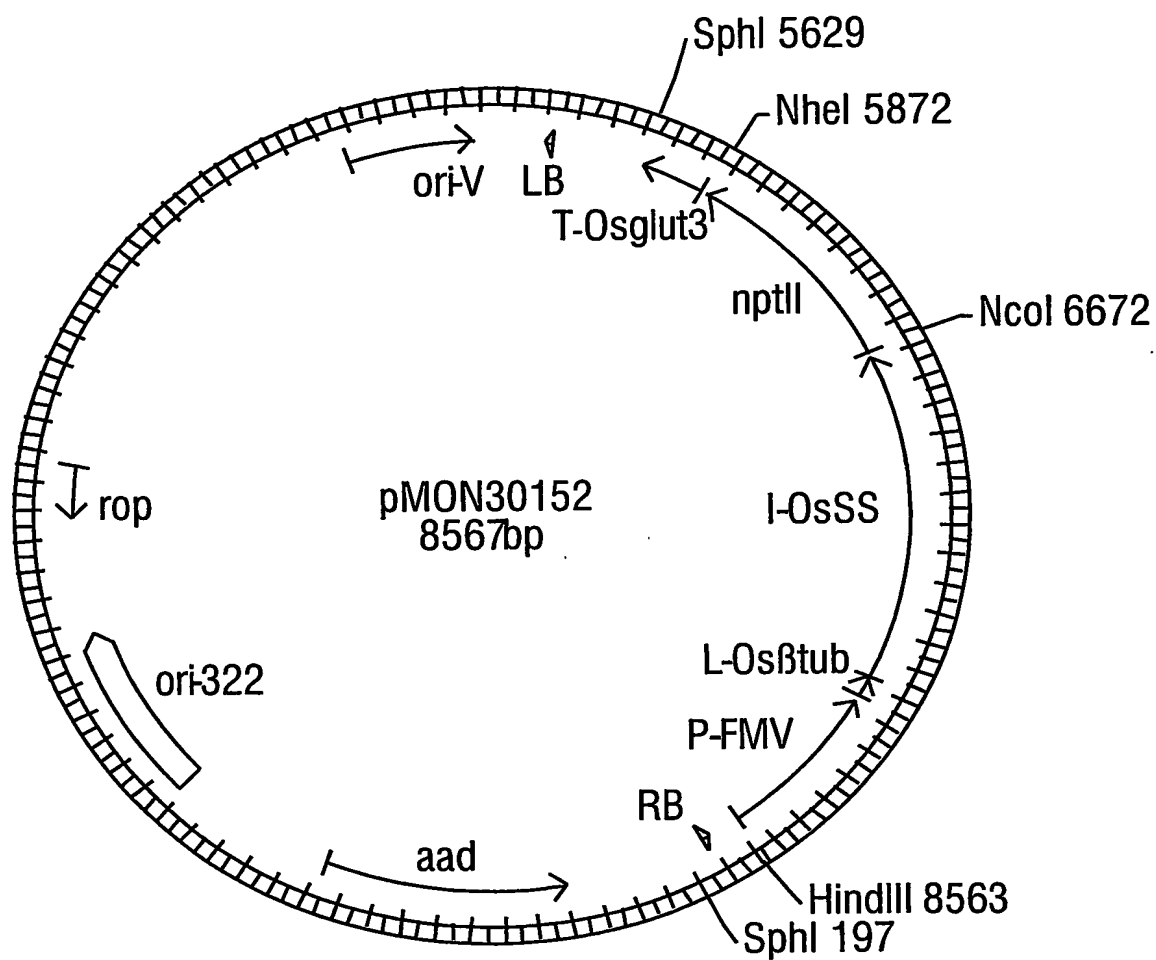
Figure 15

Figure 16

Figure 17

Figure 18

SphI212 HindIII369

Ncol1050

SphI1282

NheI1400

KpnI1787

RB

P-FMV

L-Ph.Hsp70

CTP2

aad

ORI-322

PMON20999
8576bp

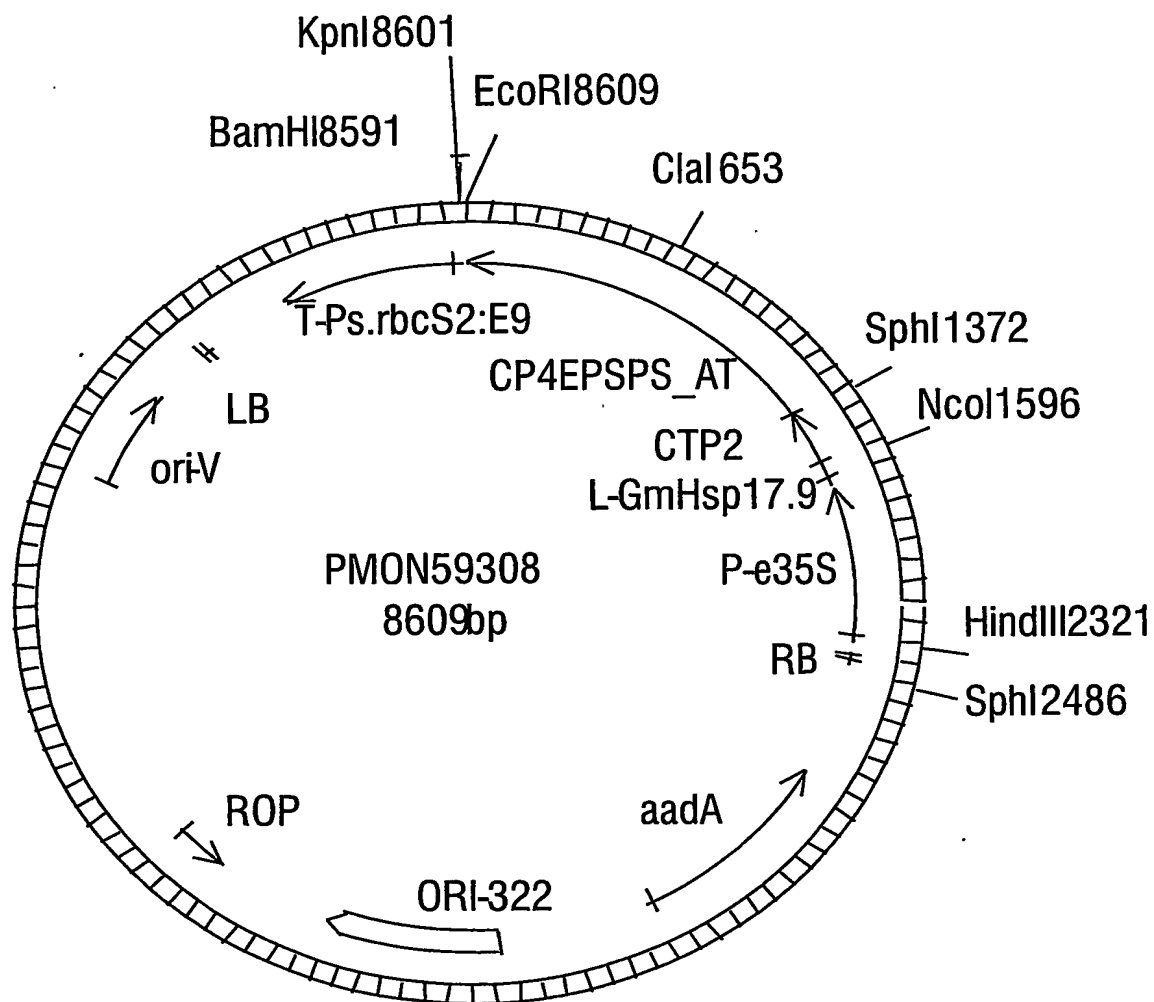CP4EPSPSsyn

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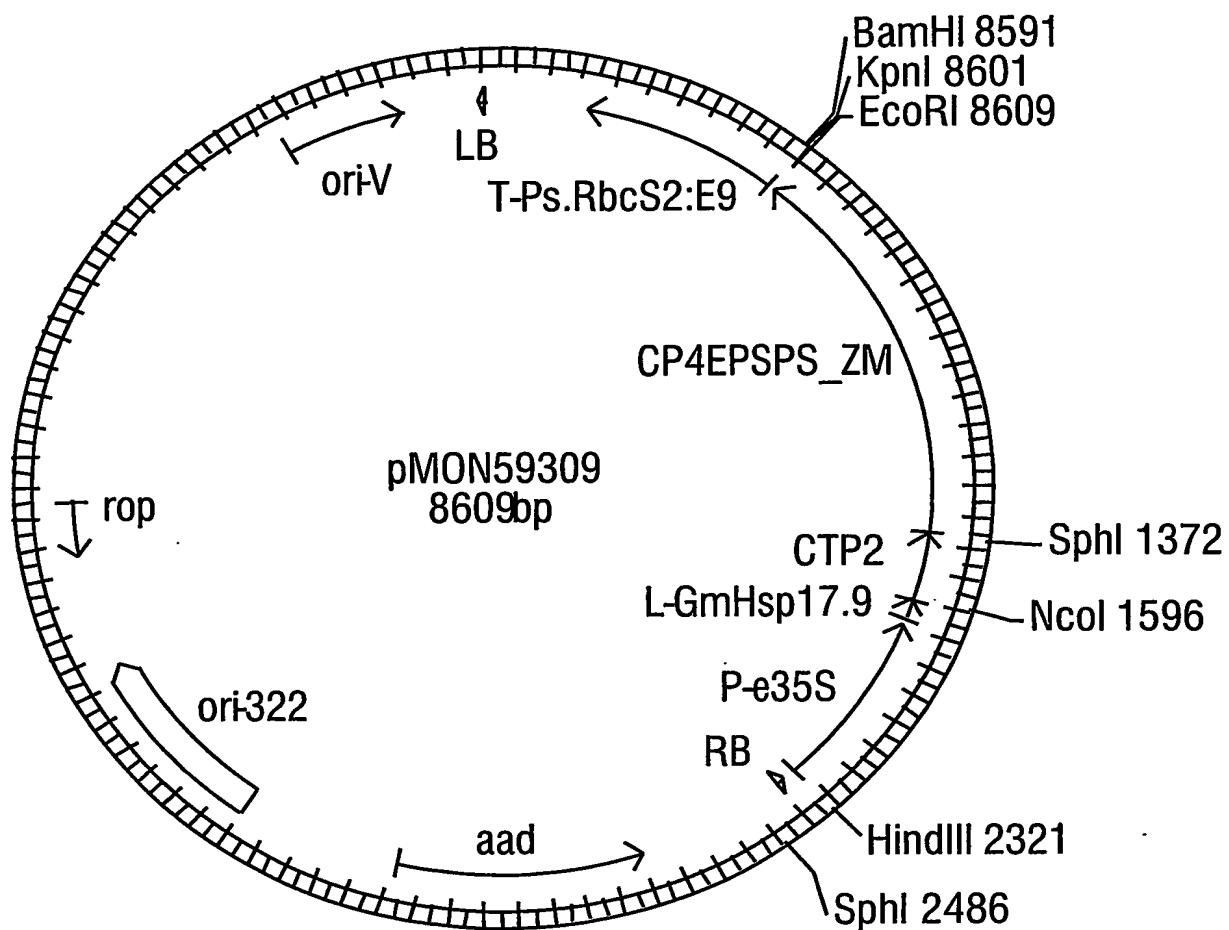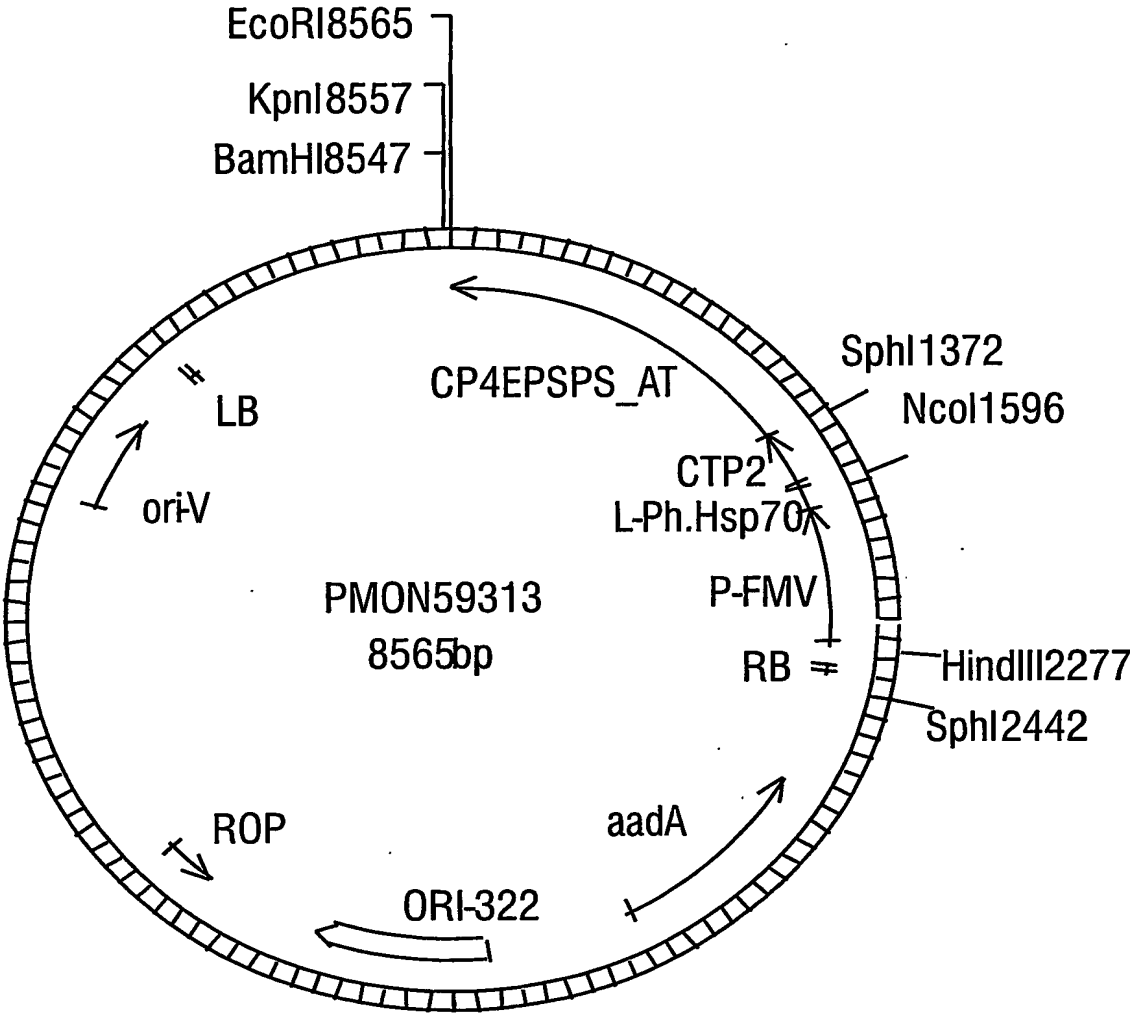
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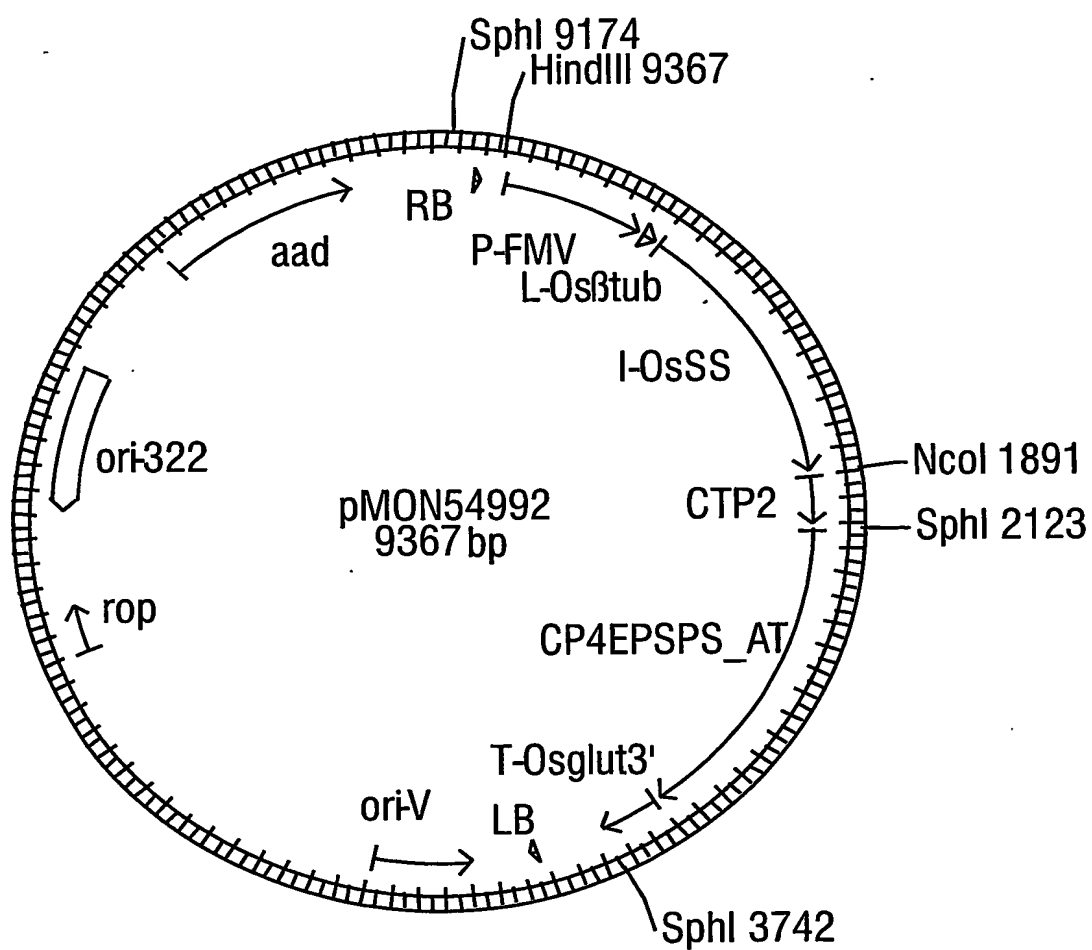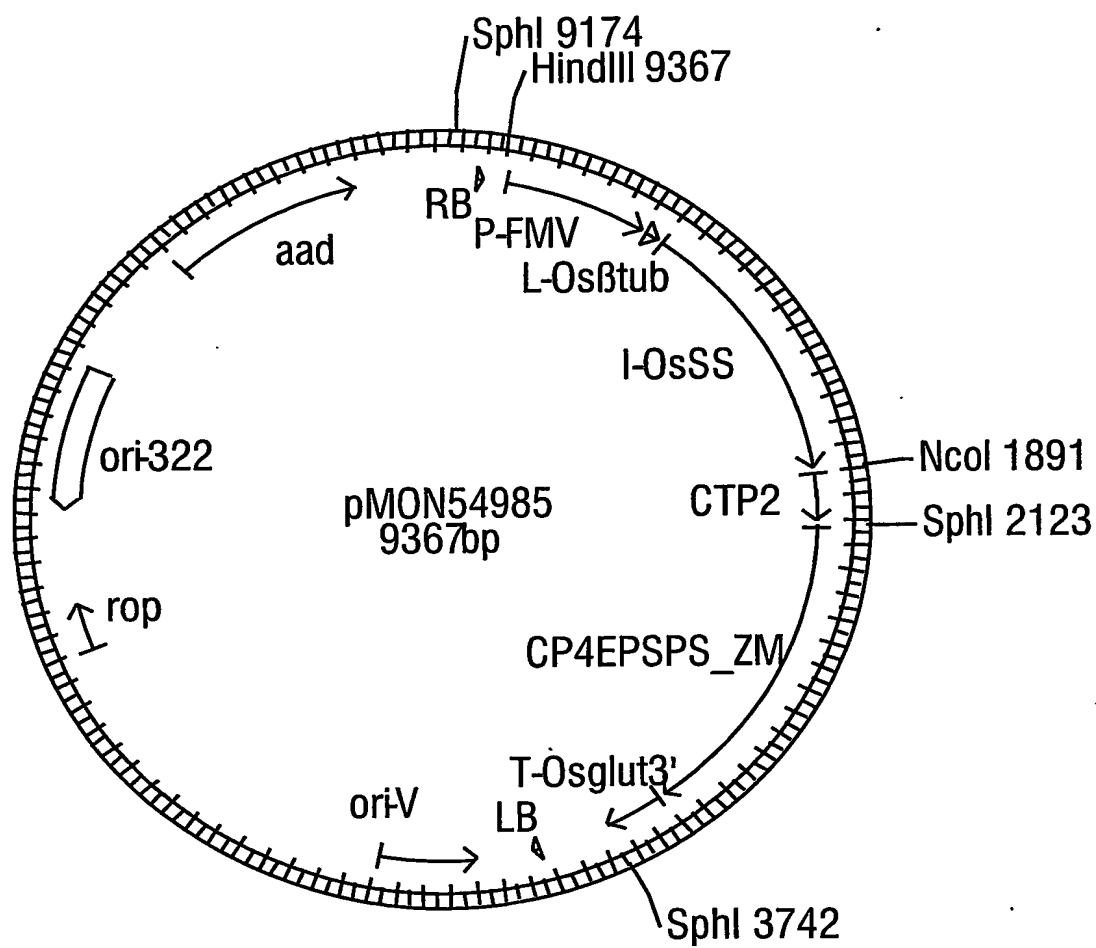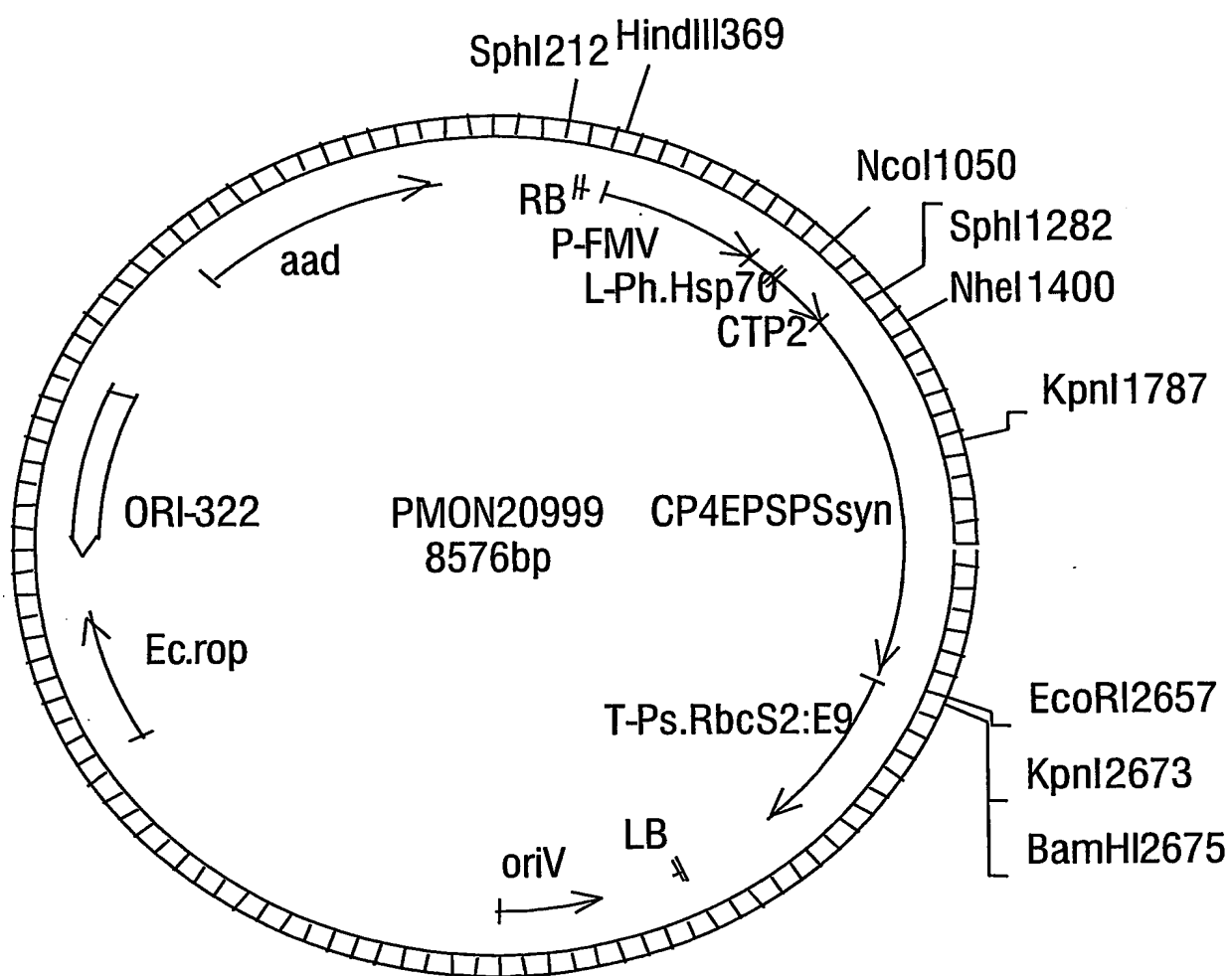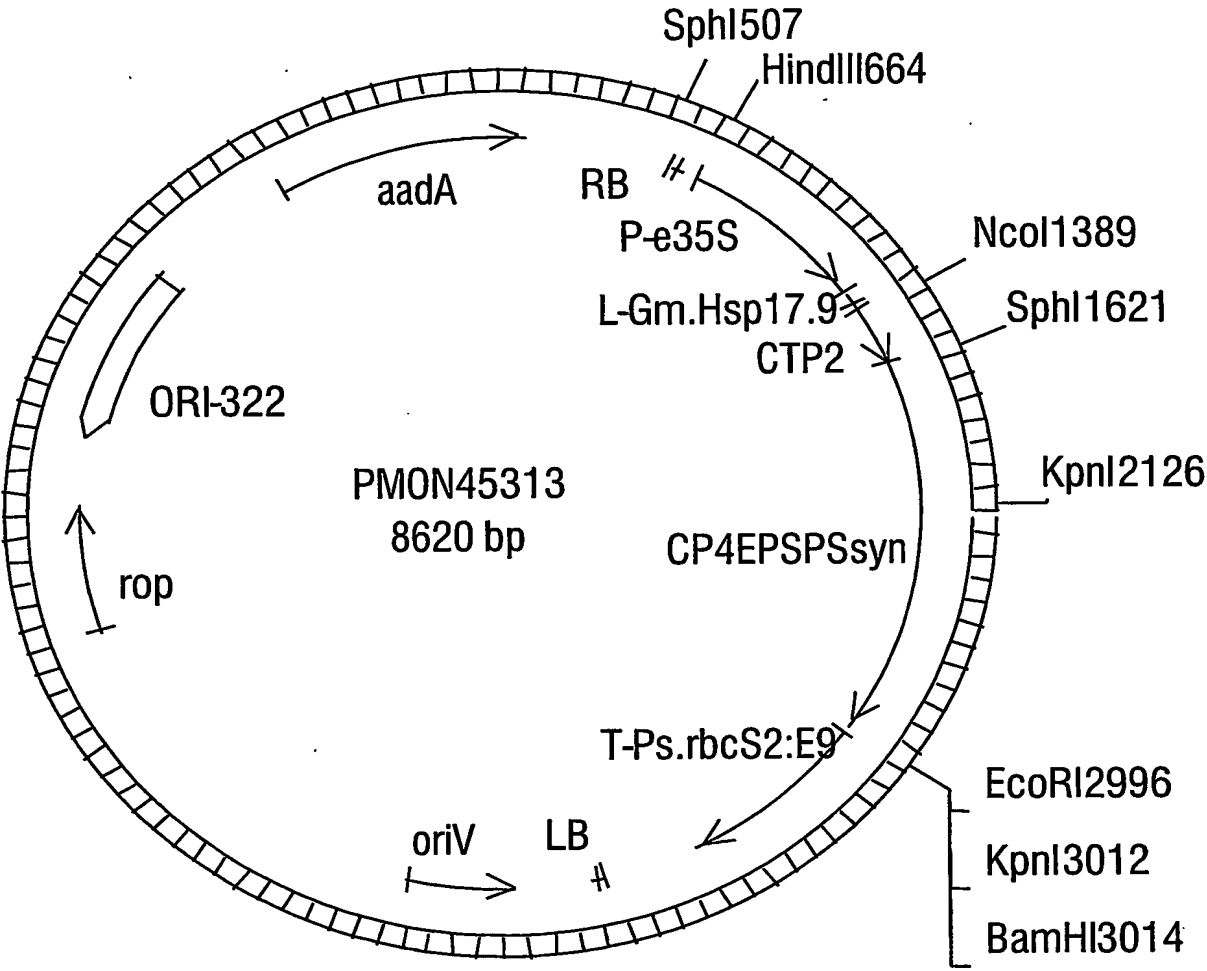
Figure 19

Figure 20

Figure 21

Figure 22

Figure 23

Figure 24

Figure 25